(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 8 July 2004 (08.07.2004)

PCT

(10) International Publication Number WO 2004/056835 A1

(51) International Patent Classification7:

(21) International Application Number:

PCT/EP2003/013524

C07D 501/22

- (22) International Filing Date: 1 December 2003 (01.12.2003)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

M12002 A 002724

20 December 2002 (20.12.2002)

- (71) Applicant (for all designated States except US): ANTIBI-OTICOS S.P.A. [IT/IT]; Strada Rivoltana Km 6/7, I-20090 Rodano (MI) (IT).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): POZZI, Giovanni [IT/IT]; Via Belvedere, 19/F, 1-20045 Besana Brianza (IT). MARTIN, Gomez, Patricio [ES/ES]; C/Juan Picornell, 28, 2°B, E-37006 Salamanca (ES). ALPEGIANI, Marco [IT/IT]; Via Tolmezzo, 12/5, I-20132 Milano (IT). CABRI, Walter [IT/IT], Via Pisacane, 5, I-20089 Rozzano (IT).

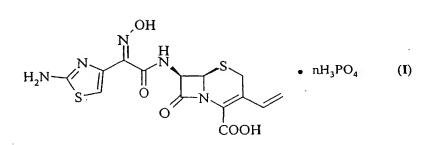
- (74) Agents: MINOJA, Fabrizio et al.; Via Rossini, 8, I-20122 Milano (IT).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU. AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CRYSTALLINE CEFDINIR SALTS



١. (57) Abstract: Cefdinir crystalline salts of formula (1), in which n ranges from 1 to 3, the preparation and use thereof for the preparation and purification of cefdinir is herein disclosed. The salts of formula (I) can be obtained from cefdinir intermediates or crude cefdinir by treatment with phosphoric acid.